

1 ABSTRACT

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3 METHOD OF, SYSTEM FOR, AND COMPUTER PROGRAM PRODUCT FOR
4 PROVIDING AUTOMATIC IDENTIFICATION OF A COMPUTER PROGRAM
5 CODE CANDIDATE FOR WEB DEPLOYMENT OR A STORED PROCEDURE

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7 ^{Sub A-7} Computer program code which is a candidate for Web enablement or stored procedures
8 is identified. Source code corresponding to computer program code is scanned and parsed to
9 determine static information concerning the computer program code. The static information is
10 stored in a database. Dynamic information concerning the computer program code during an
11 execution of the computer program code is also collected and stored in the database.
12 Responsive to the static information and dynamic information stored in the database,
13 relationships and dependencies are then developed and stored in the database. The database
14 may then be queried to produce a set of potential candidates of computer program code meeting
15 a constraint of the query. If insufficient candidates are returned by the query, then the query
16 constraint may be relaxed, and the query repeated. A candidate for re-implementation as a
17 database stored procedure call may be identified by a query searching the database for a
18 portion of the computer program code having static information indicating that the portion of
19 the computer program code contains a number, above a specified first threshold, of calls to a
20 database management system, and having dynamic information indicating that the portion of
21 the computer program code is subject to a number of calls, above a specified second threshold,
22 by another portion of computer program code. A candidate for re-implementation as a Web-
23 enabling interface call may be identified by a query searching the database for a portion of the
24 computer program code having static information indicating that the portion of the computer
25 program contains a transaction and does not contain screen output related program code.